ABSTRACT OF THE DISCLOSURE

A rotary motion machine and method of operation that includes at least one radially expandable piston defining an inner chamber having a volume that varies upon radial expansion and contraction of the piston, a core defining, at least in part, a cylinder in which the piston is positioned, a rotor rotationally movable relative to the core and being rotated by a relatively incompressible fluid driven by expansion of the piston, and at least one magnet associated with the rotor that, upon rotation of the rotor, generates electricity in a cooperatively arranged coil. A novel fuel injector atomizes and injects fuel along the length of the inner chamber. The piston can include a spiral of thin, flexible foil of amorphous material having a strip of a crystalline material for causing the spiral to expand after contraction. In one embodiment, the spiral has a melting temperature of about 3,200 degrees Celsius.